



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/506,353	09/02/2004	Masayoshi Miwa	120957	9957
25944	7590	07/24/2006		EXAMINER
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320				PARKER, FREDERICK JOHN
			ART UNIT	PAPER NUMBER
			1762	

DATE MAILED: 07/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/506,353	MIWA ET AL.	
Examiner	Art Unit		
Frederick J. Parker	1762		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### **Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 09 June 2006.

2a)  This action is **FINAL**.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 12-22 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) 12-22 is/are rejected.

7)  Claim(s) \_\_\_\_\_ is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on \_\_\_\_\_ is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date .

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .

5)  Notice of Informal Patent Application (PTO-152)

6)  Other: \_\_\_\_ .

## **DETAILED ACTION**

### ***Specification***

The amendments in response to the Specification Objections of the Previous Office Action are acknowledged and appreciated, and the Examiner withdraws the objections.

### ***Claim Objections***

The amendments in response to the Claim Objections of the Previous Office Action are acknowledged and appreciated, and the Examiner withdraws the objections.

### ***Claim Rejections - 35 USC § 112***

The amendments in response to the 35 USC 112 rejections of the Previous Office Action are acknowledged and appreciated, and the Examiner withdraws the rejections.

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 12,13,16-21 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 63-168517.

JP 63-168517 discloses a method of applying information (alpha-numeric characters, bar codes, etc per claim 18) onto outer surfaces (fig. 2, etc) of cellular honeycomb catalyst supports made of ceramic components including cordierite, alumina, mullite LiAl Silicate, aluminum titanate, titania, zirconia, silicon or aluminum nitride, etc [0034]. The information may be applied by stamping (inherently a transfer method), laser, ink jet printing, etc [0022-23] per claim 19-20. The applied information, in turn, is over-coated by transparent water-repellent materials such as resin or silica sol (silica in water, [0049] per claims 13,17). The over-coating

forms an impregnated, water-resistant portion of the cellular material about the applied information to prevent mottling and loss of clarity of the information by providing protection against the capillary flow/ oozing of applied catalyst solution through porous walls of the inner cells of the honeycomb in which catalyst solution is applied, as described in [0026-27]. The reference therefore anticipates claims 12,13,16-21 as provided.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. Claim 22 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP 63-168517.

The reference discloses a porous ceramic honeycomb, which has thereon information (alpha-numeric characters, bar codes, etc) which in turn is coated/ impregnated by transparent water-

repellent materials such as resin or silica sol. The product would be the same as, or only slightly different from, that of claim 22. The patentability of a product is based upon the product itself as claimed, and not upon its method of production. If the product of a product-by-process claim is the same or obvious from a product of the prior art, it is unpatentable even though the processes of making may be different. It is the burden of Applicant to establish an unobvious difference between the claimed product and that of the prior art, MPEP 2113.

6. Claims 14,15 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 63-168517 and optionally in view of Hawley's.

JP 63-168517 is cited for the same reasons previously discussed, which are incorporated herein. While specific particle sizes of the silica sol are not cited, sols are a type of colloid by definition, colloids having a particle size of 1-100 nm which encompasses the range of claim 15. Hawley's is provided as support, although it remains the Examiner's position that this would have been known to one of ordinary skill. One of ordinary skill would have recognized the selection of finer particle sizes would have been advantageous to close off even fine sized open porosity to prevent capillary migration of detrimental catalyst fluids in the vicinity of the coated information, such that the selection of particle sizes of claim 15 would have been obvious. While the specific water: silica composition of the overcoat is not cited, it is the Examiner's position that one of ordinary skill would have developed the formula through routine experimentation to meet the requirements of the reference, namely to provide a resistant overcoat to protect the information for a cellular material of a given porosity/ pore size distribution.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to carry out the method of JP 63-168517 using sols of sufficient particle size to form an impregnated, water-resistant portion of the cellular material to prevent mottling and loss of clarity of the applied information by providing protection from the capillary flow of subsequently applied catalyst solution.

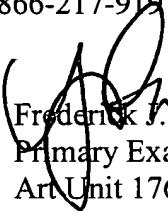
*Response to Arguments*

This action is made non-final to correct a problem caused by the e-892 and a mailroom error; consequently the translation of the JP 63-168517 patent which contains bracketed paragraphs is enclosed (hopefully; if not, please notify Examiner). Applicants arguments regarding the notion that JP2002-221032 does not qualify as prior art is moot because the reference is never cited as part of the rejection, nor was/ is it present on the PTO-892. The current action therefore clarifies all issues raised by the Applicants.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frederick J. Parker whose telephone number is 571/ 272-1426. The examiner can normally be reached on Mon-Thur. 6:15am -3:45pm, and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571/272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Frederick J. Parker  
Primary Examiner  
Art Unit 1762

fjp